

SOIL REMEDY ALTERNATIVE S4c: SOIL VAPOR EXTRACTION (Capitol Costs)

remedy area:		0.8	acres	Total:		\$806,866
1. Power to Site						\$25,000
Assume	1	to drop electrical conncection to system, including:				
		- Installation by a qualified electrician;				
		- Installation of main disconnect;				
		- Installation of an electrical meter face;				
2. SVE System Equipment						\$112,500
Assume	1	Prewired skid mounted 10000 scfm SVE system, including:				
		1 X 500 Hp PD Blowers				
		1 X 500 gallon vapor/liquid separator with transfer pump				
		2,500 gallon holding tank				
		2 X 2500 lb carbon vessels				
		Control system w/ telemetry				
3. SVE System Installation						\$357,328
Assume	70	SVE wells at	\$3,366	per well	\$235,171	
Assume	2	truck loads of IDW	\$385	per load	\$821	
Assume	3	tons of hazardous IDW	\$132	per ton	\$352	
Assume	23	tons of non-hazardous IDW	\$38	per ton	\$892	
Assume	13	IDW profile samples	\$758	per sample	\$9,702	
Assume	787	feet of trenching at	\$30	per linear foot	\$23,616	
Assume	787	feet of piping at	\$30	per linear foot	\$23,616	
Assume	787	feet of resurfacing at	\$12	per linear foot	\$9,446	
Assume	70	wellhead fittings at	\$400	per well	\$27,947	
Assume	213	sqft concrete pad at	\$11	per sqft	\$2,347	
Assume	1.0	fencing to enclose system	\$2,244		\$2,244	
Assume	4	TO-14 Analysis at Start-up	\$275	per sample	\$1,173	
Assume	1	Air Emissions Permit	\$20,000	lump sum	\$20,000	
4. Installation Direction and Oversight						\$76,435
Assume	349	Project Scientist I	\$113	per ton delivered	\$39,475	
Assume	157	Senior Technician	\$86	per hour	\$13,531	
Assume	41	hours of travel to/from the site	\$105	per hour	\$4,256	
Assume	51	per diem/lodging/truck/fuel	\$260	per hour	\$13,173	
Assume	5	airfare and parking costs of	\$650	per hour	\$3,467	
Assume	10	field supplies cost of	\$250	per hour	\$2,533	
5. Project Management & Reporting						\$101,126
Assume	1	Installation Report & Drawings	\$40,000	Lump Sum	\$40,000	
Assume	1	AMEC project management at 10% of all other cost			\$61,126	
8. Contingency						\$134,478
Assume	1	Continegency			\$134,478	